



SAML V2.0 Identity Assurance Profiles Version 1.0

Working Draft 02 13 July 2010

Specification URIs:

This Version:

<http://docs.oasis-open.org/security/saml/Post2.0/sstc-saml-assurance-profile-draft-02.html>

<http://docs.oasis-open.org/security/saml/Post2.0/sstc-saml-assurance-profile-draft-02.odt>
(Authoritative)

<http://docs.oasis-open.org/security/saml/Post2.0/sstc-saml-assurance-profile-draft-02.pdf>

Previous Version:

<http://docs.oasis-open.org/security/saml/Post2.0/sstc-saml-assurance-profile-cd-01.html>

<http://docs.oasis-open.org/security/saml/Post2.0/sstc-saml-assurance-profile-cd-01.odt>
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<http://docs.oasis-open.org/security/saml/Post2.0/sstc-saml-assurance-profile.html>

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35 **Related Work:**

36 This specification defines how to use existing SAML mechanisms to express identity assurance
37 information - 1) the SAML 2.0 Authentication Context [SAMLAC] mechanisms in order to allow
38 SAML authentication requests and assertions to carry assurance information and 2) extensions to
39 SAML metadata [SAMLMA] to represent assurance certification information about a SAML entity
40 within the corresponding metadata.

41 **Declared XML Namespace(s):**

42 N/A

43 **Abstract:**

44 This document specifies methods of representing assurance information in two different aspects
45 of SAML. It provides guidelines for the use of SAML's Authentication Context [SAMLAC]
46 mechanisms to express authentication assurance information within authentication requests and
47 assertions. Separately, it defines an attribute suitable for inclusion in SAML Metadata [SAMLMeta]
48 for enumerating an Identity Provider's assurance certifications.

49 **Status:**

50 This document was last revised or approved by the SSTC on the above date. The level of
51 approval is also listed above. Check the current location noted above for possible later revisions
52 of this document. This document is updated periodically on no particular schedule.

53 TC members should send comments on this specification to the TC's email list. Others
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55 web page at <http://www.oasis-open.org/committees/security>.

56 For information on whether any patents have been disclosed that may be essential to
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58 section of the TC web page (<http://www.oasis-open.org/committees/security/ipr.php>).

59 The non-normative errata page for this specification is located at [http://www.oasis-](http://www.oasis-open.org/committees/security)
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1 Introduction

126

127 This specification defines conventions for parties using SAML to exchange information regarding identity
128 assurance. First, it provides guidelines for the definition of SAML Authentication Context [SAMLAC]
129 classes corresponding to different assurance criteria – thereby allowing the corresponding URIs for those
130 assurance-based classes to be inserted within authentication requests and responses. Secondly, it
131 defines a SAML attribute profile that may be used to represent the certification status of an issuer of
132 authentication statements (i.e., an Identity Provider) regarding its conformance with the requirements of
133 an identity assurance framework.

1.1 Motivation [Non-Normative]

134

135 Many organizations using federated service access have found it useful to define or adopt “identity
136 assurance frameworks,” such as [LibertyIAF]. Such frameworks offer a model for categorizing the large
137 number of possible combinations of registration processes, security mechanisms, and authentication
138 methods that underlie authentication processes into a smaller, more manageable set. The term “levels of
139 assurance” (LOA) is often used to refer to this concept, or to a particular set of criteria (“assurance profile”
140 is also used). Different combinations of processes and technology are rated according to the quality of
141 assurance they can provide. Typically, a framework defines 3-5 levels or profiles, ranging from low to high
142 assurance.

143 Two key use cases for assurance are:

- 144 1. Allowing an IdP to advertise those LOA for which it has been certified able to meet the associated
145 requirements.
- 146 2. Allowing an RP to express its expectations for the LOA at which a user should be authenticated and
147 and, conversely, allow an IdP to indicate the actual LOA in its responses.

148 This document profiles SAML Metadata to satisfy the first use case, and provides guidelines for using
149 SAML's Authentication Context class mechanism to address the second.

1.2 Limitations [Non-Normative]

150

151 The URIs representing LOA must be configured into every system in a deployment, and the relative
152 ordering of the levels, if any, must be decided and configured out-of-band.

1.3 Terminology

153

154 The keywords "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD
155 NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this specification are to be interpreted as
156 described in IETF [RFC 2119]:

157 ...they MUST only be used where it is actually required for interoperation or to limit behavior
158 which has potential for causing harm (e.g., limiting retransmissions)...

159 These keywords are thus capitalized when used to unambiguously specify requirements over protocol and
160 application features and behavior that affect the interoperability and security of implementations. When
161 these words are not capitalized, they are meant in their natural-language sense.

162 Listings of XML schemas appear like this.

163

164 Example code listings appear like this.

165 Conventional XML namespace prefixes are used throughout the listings in this specification to stand for
 166 their respective namespaces as follows, whether or not a namespace declaration is present in the
 167 example:

Prefix	XML Namespace	Comments
attr:	urn:oasis:names:tc:SAML:metadata:attribute	This is the namespace defined in the SAML V2.0 Metadata Extension for Entity Attributes Version 1.0 specification [SAMLMA].
md:	urn:oasis:names:tc:SAML:2.0:metadata	This is the SAML V2.0 metadata namespace defined in the SAML V2.0 Metadata specification [SAMLMeta].
saml:	urn:oasis:names:tc:SAML:2.0:assertion	This is the SAML V2.0 assertion namespace defined in the SAML V2.0 core specification [SAMLCore].
samlp:	urn:oasis:names:tc:SAML:2.0:protocol	This is the SAML V2.0 protocol namespace defined in the SAML V2.0 core specification [SAMLCore].
xs:	http://www.w3.org/2001/XMLSchema	This namespace is defined in the W3C XML Schema specification [Schema1]. In schema listings, this is the default namespace and no prefix is shown.

168 This specification uses the following typographical conventions in text: <SAMLElement>,
 169 <ns:ForeignElement>, Attribute, **Datatype**, OtherCode.

170 1.4 Normative References

- 171 **[RFC 2119]** S. Bradner. *Key words for use in RFCs to Indicate Requirement Levels*. IETF
 172 RFC 2119, March 1997. <http://www.ietf.org/rfc/rfc2119.txt>
- 173 **[SAMLAC]** OASIS Standard, *Authentication Context for the OASIS Security Assertion*
 174 *Markup Language (SAML) V2.0*, March 2005. [http://docs.oasis-](http://docs.oasis-open.org/security/saml/v2.0/saml-authn-context-2.0-os.pdf)
 175 [open.org/security/saml/v2.0/saml-authn-context-2.0-os.pdf](http://docs.oasis-open.org/security/saml/v2.0/saml-authn-context-2.0-os.pdf)
- 176 **[SAMLCore]** OASIS Standard, *Assertions and Protocols for the OASIS Security Assertion*
 177 *Markup Language (SAML) V2.0*, March 2005. [http://docs.oasis-](http://docs.oasis-open.org/security/saml/v2.0/saml-core-2.0-os.pdf)
 178 [open.org/security/saml/v2.0/saml-core-2.0-os.pdf](http://docs.oasis-open.org/security/saml/v2.0/saml-core-2.0-os.pdf)
- 179 **[SAMLMA]** OASIS Committee Specification, *SAML V2.0 Metadata Extension for Entity*
 180 *Attributes*. August 2009. [http://docs.oasis-open.org/security/saml/Post2.0/ssstc-](http://docs.oasis-open.org/security/saml/Post2.0/ssstc-metadata-attr-cs-01.pdf)
 181 [metadata-attr-cs-01.pdf](http://docs.oasis-open.org/security/saml/Post2.0/ssstc-metadata-attr-cs-01.pdf)
- 182 **[SAMLMeta]** OASIS Standard, *Metadata for the OASIS Security Assertion Markup Language*
 183 *(SAML) V2.0*, March 2005. [http://docs.oasis-open.org/security/saml/v2.0/saml-](http://docs.oasis-open.org/security/saml/v2.0/saml-metadata-2.0-os.pdf)
 184 [metadata-2.0-os.pdf](http://docs.oasis-open.org/security/saml/v2.0/saml-metadata-2.0-os.pdf)
- 185 **[Schema1]** H. S. Thompson et al. *XML Schema Part 1: Structures*. World Wide Web
 186 Consortium Recommendation, May 2001. See [http://www.w3.org/TR/2001/REC-](http://www.w3.org/TR/2001/REC-xmlschema-1-20010502/)
 187 [xmlschema-1-20010502/](http://www.w3.org/TR/2001/REC-xmlschema-1-20010502/). Note that this specification normatively references
 188 [Schema2], listed below.
- 189 **[Schema2]** Paul V. Biron, Ashok Malhotra. *XML Schema Part 2: Datatypes*. World Wide Web
 190 Consortium Recommendation, May 2001. See [http://www.w3.org/TR/2001/REC-](http://www.w3.org/TR/2001/REC-xmlschema-2-20010502/)
 191 [xmlschema-2-20010502/](http://www.w3.org/TR/2001/REC-xmlschema-2-20010502/)

192 **1.5 Non-normative References**

193 **[LibertyIAF]** Russ Cutler, ed. Liberty Identity Assurance Framework 1.0, Liberty Alliance
194 Project, 2008.

2 AuthnContext Identity Assurance Guidelines

195

196 It is useful for parties using SAML to express in SAML authentication messages the assurance level or
197 criteria (LOA) requested by a relying party, and the LOA that is applicable to an authentication assertion.
198 Both constructs have a parameter to carry such information, specifically the
199 `<saml:AuthnContextClassRef>` element.

200 The SAML Authentication Context specification [SAMLAC] requires that XML schemas be created to
201 define the various criteria for a given authentication context class. The approach suggested below
202 represents each LOA in an assurance framework as a separate authentication context class. Each LOA is
203 characterized by a URI that defines the authentication context class, and the body of the schema contains
204 a reference to the external documentation that defines the LOA.

205 These LOA/class URIs can be conveyed in the `<samlp:RequestedAuthnContext>` element of an
206 authentication request and the `<saml:AuthnContext>` element in an assertion via the
207 `<saml:AuthnContextClassRef>` element – just as for the authentication context classes defined by
208 the original Authentication Context specification.

2.1 AuthnContext Schema Guidelines

209

210 An authentication context class schema uses XML schema constructs to stipulate the requirements of the
211 corresponding class (e.g., to stipulate that the user authenticate to the IdP with an OTP credential). As the
212 requirements of a given LOA are generally defined within some existing human-readable policy document,
213 the class schema for that LOA will, rather than try to duplicate the requirements as documented, simply
214 point to the appropriate document (or section within).

215 The `<GoverningAgreements>` element within the Authentication Context schema will be used to refer
216 to the LOA documentation.

217 Therefore, to define class schemas for a set of LOA:

- 218 1. Define a URI for each LOA.
- 219 2. Determine a URL to an appropriate document (or section) for each LOA (this may be, but does
220 not have to be, the same as the URI in the previous step).
- 221 3. Create an XML schema for each LOA:
 - 222 a) The schema should redefine the base authentication context types schema (saml-schema-
223 authn-context-types-2.0.xsd) as per the class schemas in the SAML Authentication Context
224 specification.
 - 225 b) The schema's target namespace should be the URI from step 1.
 - 226 c) The schema should restrict the **AuthnContextDeclarationBaseType** complex type so that
227 only a single `<GoverningAgreements>` element, with no other children, is allowed.
 - 228 d) The value of the `governingAgreementRef` should be fixed to point to the corresponding
229 URL from step 2.

2.2 Example

230

231 To demonstrate how the above model might be used in practice, we show here a class schema for a
232 fictional FAF (Foo Assurance Framework) with three different levels of assurance. The 3 LOA will each
233 have a corresponding schema, each referencing the appropriate section of the FAF documentation.

234 We define the following URIs to represent the 3 LOA

- 235 ● <http://foo.example.com/assurance/loa1>
- 236 ● <http://foo.example.com/assurance/loa2>
- 237 ● <http://foo.example.com/assurance/loa3>

238 The schema for LOA1 might look like:

```
239 <?xml version="1.0" encoding="UTF-8"?>
240 <xs:schema
241   targetNamespace="http://foo.example.com/assurance/loa1"
242   xmlns:xs="http://www.w3.org/2001/XMLSchema"
243   xmlns="http://foo.example.com/assurance/loa1"
244   finalDefault="extension"
245   blockDefault="substitution"
246   version="2.0">
247
248   <xs:redefine schemaLocation="saml-schema-authn-context-types-2.0.xsd">
249
250     <xs:annotation>
251       <xs:documentation>
252         Class identifier:
253         http://foo.example.com/assurance/loa1
254
255         Defines Level 1 of FAF
256       </xs:documentation>
257     </xs:annotation>
258
259     <xs:complexType name="AuthnContextDeclarationBaseType">
260       <xs:complexContent>
261         <xs:restriction base="AuthnContextDeclarationBaseType">
262           <xs:sequence>
263             <xs:element ref="GoverningAgreements"/>
264           </xs:sequence>
265           <xs:attribute name="ID" type="xs:ID" use="optional"/>
266         </xs:restriction>
267       </xs:complexContent>
268     </xs:complexType>
269
270     <xs:complexType name="GoverningAgreementRefType">
271       <xs:complexContent>
272         <xs:restriction base="GoverningAgreementRefType">
273           <xs:attribute name="governingAgreementRef"
274             type="xs:anyURI"
275             fixed="http://foo.example.com/assurance.pdf#section1"
276             use="required"/>
277         </xs:restriction>
278       </xs:complexContent>
279     </xs:complexType>
280
281   </xs:redefine>
282 </xs:schema>
```

283 3 Identity Assurance Certification Attribute Profile

284 This profile defines a SAML attribute to represent the certification status of an Identity Provider regarding
285 its conformance to the requirements of an identity assurance framework.

286 3.1 Required Information

287 **Identification:** urn:oasis:names:tc:SAML:2.0:attribute:profiles:assurance-certification

288 **Contact Information:** security-services-comment@lists.oasis-open.org

289 **Description:** Given below.

290 **Updates:** None.

291 3.2 Profile Overview

292 In some relatively simple scenarios where identity assurance is used, a relying party may have a direct
293 business relationship with an organization operating an Identity Provider that satisfies the relying party that
294 the practices of the Identity Provider conform to the requirements of an assurance framework. In a larger-
295 scale scenario, a relying party may wish to rely on a third party (a “certification service”) to certify the
296 practices of the Identity Provider organization. In this scenario, it is useful for the IdP’s certification status
297 as determined by that certification service to be represented in a standard fashion, in a way that can be
298 communicated securely among the various parties involved. The SAML Metadata specification
299 [SAMLMeta] defines a means for information about SAML entities to be represented and communicated
300 securely.

301 This profile defines a SAML attribute that can be applied to entities in a SAML metadata instance to
302 express certification status. To indicate that an Identity Provider (or group of Identity Providers) is certified
303 as conformant with an LOA, the attribute defined in this profile is added to that Identity Provider’s
304 <md:EntityDescriptor> element (or a parent <md:EntitiesDescriptor> element) using the
305 <attr:EntityAttributes> extension element defined in [SAMLMA]. This extension permits the use
306 of a <saml:Attribute> element alone, or its inclusion within an <saml:Assertion> element. A
307 <saml:Assertion> element can be used to include an assurance certification attribute that is signed
308 independently from the enclosing metadata.

309 3.3 SAML Attribute Naming

310 The NameFormat XML attribute in <saml:Attribute> elements MUST be
311 urn:oasis:names:tc:SAML:2.0:attrname-format:uri.

312 This profile defines a single SAML attribute name:

313 urn:oasis:names:tc:SAML:attribute:assurance-certification

314 3.4 Profile-Specific XML Attributes

315 No additional XML attributes are defined for use with this attribute.

316 3.5 SAML Attribute Values

317 Values of this attribute are URIs representing LOAs as suggested in section 2 of this document. Multiple
318 values MAY be present. This document does not define any relationship between LOAs or define relying
319 party behavior if specific value(s) are, or are not, present. It is the responsibility of assurance framework

320 documentation to specify whether, for example, certification at a “higher” LOA implies approval to assert a
321 “lower” LOA.

322 3.6 Example

323 In this example a metadata publisher places the <saml:Attribute> element in the IdP's
324 <md:EntityDescriptor> to indicate that the practices of the IdP have been certified as conformant
325 with the requirements of the stated LOA. A party relying on this metadata could use this value as input to
326 policy as to whether to accept SAML authentication assertions from this IdP.

```
327 <EntityDescriptor xmlns="urn:oasis:names:tc:SAML:2.0:metadata"  
328   xmlns:saml="urn:oasis:names:tc:SAML:2.0:assertion"  
329   xmlns:attr="urn:oasis:names:tc:SAML:metadata:attribute"  
330   xmlns:ds="http://www.w3.org/2000/09/xmldsig#"  
331   entityID="https://IdentityProvider.example.com/SAML">  
332   <Extensions>  
333     <attr:EntityAttributes>  
334       <saml:Attribute  
335         NameFormat="urn:oasis:names:tc:SAML:2.0:attrname-format:uri"  
336         Name="urn:oasis:names:tc:SAML:attribute:assurance-certification">  
337         <saml:AttributeValue>  
338           http://foo.example.com/assurance/loa1  
339         </saml:AttributeValue>  
340       </saml:Attribute>  
341     </attr:EntityAttributes>  
342   </Extensions>  
343   <IDPSSODescriptor WantAuthnRequestsSigned="true"  
344     protocolSupportEnumeration="urn:oasis:names:tc:SAML:2.0:protocol">  
345     <KeyDescriptor use="signing"> ... </KeyDescriptor>  
346     <NameIDFormat>...</NameIDFormat>  
347     <SingleSignOnService  
348       Binding="urn:oasis:names:tc:SAML:2.0:bindings:HTTP-Redirect"  
349       Location="https://IdentityProvider.example.com/SAML/SSO/Browser"/>  
350     ...  
351   </IDPSSODescriptor>  
352   ...  
353 </EntityDescriptor>
```

354

355 **4 Conformance**

356 **4.1 Identity Assurance Certification Attribute Profile Conformance**

357 An metadata publisher conforms to this profile if it can generate SAML metadata instances containing the
358 SAML attribute defined in section 3.

359 A metadata consumer (typically a relying party) conforms to this profile if it can process the SAML attribute
360 defined in section 3 and make the results available for further processing.

361 All parties must also meet the conformance requirements in [SAMLMA].

362

Appendix A. Acknowledgments

363

364

The editors would like to acknowledge the contributions of the OASIS Security Services (SAML) Technical Committee, whose voting members at the time of publication were:

365

- TBD

366

367

Appendix B. Revision History

368

- Draft 01 – first draft of sstc-saml-loa-authncontext-profile

369

370

- Draft 02 - minor tweaks to text. Removed editorial comments. Removed example class derived from base class.

371

- Draft 03 – removed the NIST 800 63 specific references and schema.

372

373

- Draft 00 sstc-saml-assurance-profile: renamed to reflect added material. Added certification motivation and specification.

374

375

376

- Draft 01 sstc-saml-assurance-profile: added attribute profile conformance, added attribute profile example, more description of certification usage, reorganized section numbering, put conformance material in section 1.

377

- Committee Draft 01, cosmetic edits.

378

379

- Draft 02 sstc-saml-assurance-profile: authncontext pieces reworked as guidelines rather than profile, editorial pass